

For Research Use Only



CoraLite® Plus 488-conjugated ALDH1A1 Polyclonal antibody

Catalog Number: **CL488-15910**

Basic Information

Catalog Number: CL488-15910	GenBank Accession Number: BC001505	Purification Method: Antigen affinity purification
Size: 1000 µg/ml	GeneID (NCBI): 216	Recommended Dilutions: IF/ICC 1:300-1:1200
Source: Rabbit	UNIPROT ID: P00352	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Isotype: IgG	Full Name: aldehyde dehydrogenase 1 family, member A1	
Immunogen Catalog Number: AG8665	Calculated MW: 501 aa, 55 kDa	
	Observed MW: 50-55 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : A549 cells,
Species Specificity: human, mouse, rat	

Background Information

ALDH1A1 (Aldehyde dehydrogenase family 1 member A1), also named as ALDC, ALDH1 and PUMB1, belongs to the aldehyde dehydrogenase family. The ALDH1A1 gene encodes a liver cytosolic isoform of acetaldehyde dehydrogenase, an enzyme involved in the major pathway of alcohol metabolism after alcohol dehydrogenase. ALDH1A1 plays a critical role in protection against oxidative stress-induced cytotoxicity in lens epithelial cells (PMID:19296407). And it is important for multiple biological activities including drug resistance, cell differentiation, and oxidative stress response (PMID:19025616). As a novel cancer stem cell marker, ALDH1A1 can be used for tumors whose corresponding normal tissues express ALDH1 in relatively restricted or limited levels such as breast, lung, ovarian or colon cancer (PMID: 20422001). This antibody can also recognize some other members of the aldehyde dehydrogenase family.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

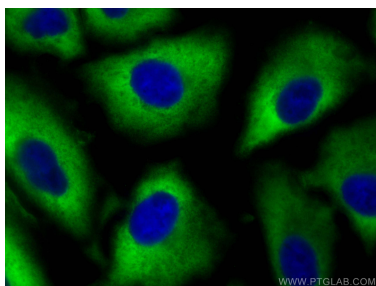
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using CoraLite® Plus 488 ALDH1A1 antibody (CL488-15910) at dilution of 1:600.